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making the correlations fairly certain. The sections show that toward the south the sandstones of the oil horizons of Ohio rapidly grade into shales. Even the shales of the Bedford and Berea formations become very thin although they do not disappear. These changes are unfavorable for oil-bearing sands in the southern part of the state.

A number of changes in correlations in formations of the Waverlian are made from those given in earlier Kentucky reports and in the Richmond Folio. The latter part of the bulletin treats of the possibilities of these beds in producing building stones and clays. If a map of the area covered by the report had been given it would have made part of the discussion more intelligible.

W. B. W.

The Geology of the Rolla Quadrangle. By WALLACE LEE. Missouri Bureau of Geology and Mines, XII. Pp. 117, pls. 12, figs. 17, maps 2.

The area covered by this report is in the central Ozark region of Missouri and includes Phelps and Dent counties. The strata described include the Gasconade, Roubidoux, and Jefferson City formations. The general horizon is of interest because it includes part of the Ozarkian and the Canadian of Dr. Ubrich's classification. The author follows the usual classification, placing these beds in the Upper Cambrian. A few erosion remnants of Carboniferous age are found in the northeastern part of the area.

An interesting structural feature is found in a number of sink areas. The author believes it was developed from the caving and subsequent filling of solution cavities.

The economic products of this quadrangle are negligible and the chief value of the report lies in its contribution to the general stratigraphy of the region.

W. B. W.

Glass Sands of Oklahoma. By FRANK BUTTRAM. Oklahoma Geol. Survey, Bull. No. 10, 1913. Pp. 91, pls. 8, figs. 3.

Approximately one-half of this report is taken up with a general description of the glass industry. As the author is a chemist he has treated chemical processes in glass production rather fully.

Notable glass sand deposits of the state are limited to three areas: the Arbuckle Mountains, southeastern Oklahoma, and near Tahlequah,